

TRITEC

energy for a better world

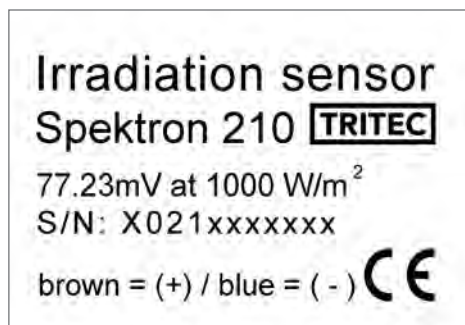


**INSTALLATION
INSTRUCTIONS
IRRADIATION SENSOR
SPEKTRON 210**

INTRODUCTION

The irradiation sensor Spektron 210 provides the possibilities of evaluating irradiation between 0 and 1500 W/m² and a voltage proportionally to the intensity of the solar irradiation. Besides, the voltage measured can be converted into the unit of irradiation (W/m²), using the calibration value imprinted on the sensor.

TECHNICAL DATA



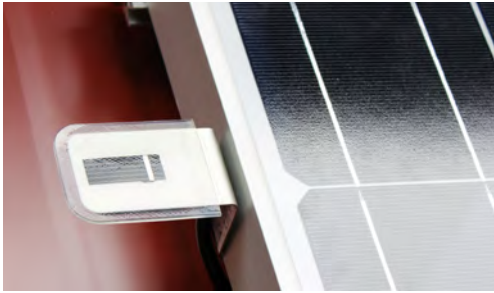
Model	Spektron 210
Sensor type	Monocrystalline cell (13 mm / 33 mm)
Measuring range	0 – 1500 W/m ²
Sensor accuracy	± 5 % (annual mean)
Outlet	approx. 75 mV at 1000 W/m ²
Calibration	Sun Simulator Solar Constant 1200 with reference sensor calibrated by the ISE
Design of the sensor	Measuring cell laminated in novafalon and EH foil
Casing	Z-profiled aluminium plate, connection encapsulated
Dimensions	118 mm x 50 mm x 44 mm
Protection mode	IP65
Weight	250 g (incl. cable)

WARNINGS



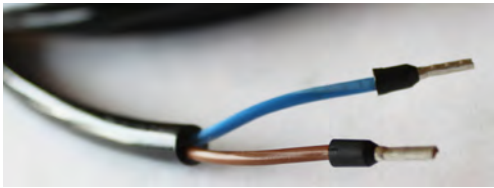
The installation may only be performed by qualified electricians. TRITEC shall not assume any liability in case of improper installation, connection and utilization of Spektron 210.

INSTALLING THE SENSOR



Fastening

Spektron 210 is fastened with the bracket on the mounting rack of the PV system. Care must be taken that the sensor has the same inclination and orientation as the PV system to be examined. Even minor deviations may result in measuring errors!



Terminal assignment

Brown connection line: cell voltage +
Blue connection line: cell voltage -

When running the connection line, relevant regulations and guidelines are to be complied with.

CE DECLARATION OF CONFORMITY



This product is in compliance with relevant guidelines and therefore is to be provided with the CE label. The Declaration of Conformity may be requested from TRITEC.
